

# Test Report Summary

## 1375AW UniVent Window, PO Awning (CAM Locks)

AIR – WATER – STRUCTURAL – AUXILIARY TESTING



AAMA/WDMA/CSA 101/I.S.2/A440-17 & A440S1-19 (Class AW-PG60)			
TEST DESCRIPTION	TEST METHOD	TEST RESULTS	
Air Infiltration	ASTM E283	0.1 L/s•m <sup>2</sup> @ 300 Pa	0.03 cfm/ft <sup>2</sup> @ 6.27 psf
Air Exfiltration	ASTM E283	0.1 L/s•m <sup>2</sup> @ 75 Pa	0.02 cfm/ft <sup>2</sup> @ 1.57psf
Cyclic Water Penetration	ASTM E547	720 Pa	15 psf
Static Water Penetration	ASTM E331	720 Pa	15 psf
Life Cycle Testing	AAMA 910-10	PASS (4000 cycles)	
Thermal Cycling	AAMA 501.5	-18 °C to 82 °C	-0 °F to 180 °F
Structural Design Load	ASTM E330	+/- 2.88 kPa	+/- 60 psf
Structural Overload	ASTM E330	+/- 4.32 kPa	+/- 90 psf
Forced Entry Resistance	ASTM F588	Grade 40	
Insect Screen Serviceability	ASTM E1748	PASS	

### TEST LAB

### Element

Mississauga, ON L5K-1B3

REPORT NUMBER	21-06-B0106-3N
TEST DATE	1/7/2022
REPORT DATE	2/7/2022

Test results and test methods listed below are from the test reports in the above table. Contact a Tubelite/Alumicor representative for complete test information.

4/15/2022

Tim Fookes - Vice President of Engineering Tubelite/Alumicor

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#### **TEST METHODS**

**AAMA/WDMA/CSA 101/I.S.2/A440-17**

**AAMA/WDMA/CSA 101/I.S.2/A440S1-19**

**Air Infiltration/Exfiltration:** ASTM E283, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.*

**Cyclic Static Water Penetration:** ASTM E547, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, Curtain Walls by Cyclic Static Air Pressure Difference.*

**Static Water Penetration:** ASTM E331, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, Curtain Walls by Uniform Static Air Pressure Difference.*

**Life Cycle:** AAMA 910, *Voluntary “Life Cycle” Specifications and Test Methods for AW Class Architectural Windows and Doors.*

**Thermal Cycling:** AAMA 501.5, *Standard Test Method for Thermal Cycling of Exterior Walls.*

**Structural Design and Overload:** ASTM E330, *Standard Test Method for Structural Performance of Exterior Windows, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.*

**Forced Entry:** ASTM F588, *Standard Test Methods for Measuring The Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.*

**Insect Screen Serviceability:** ASTM E1748, *Standard Test Method for Evaluating the Engagement Between Windows and Insect Screens as an Integral System.*